

FIG. 1

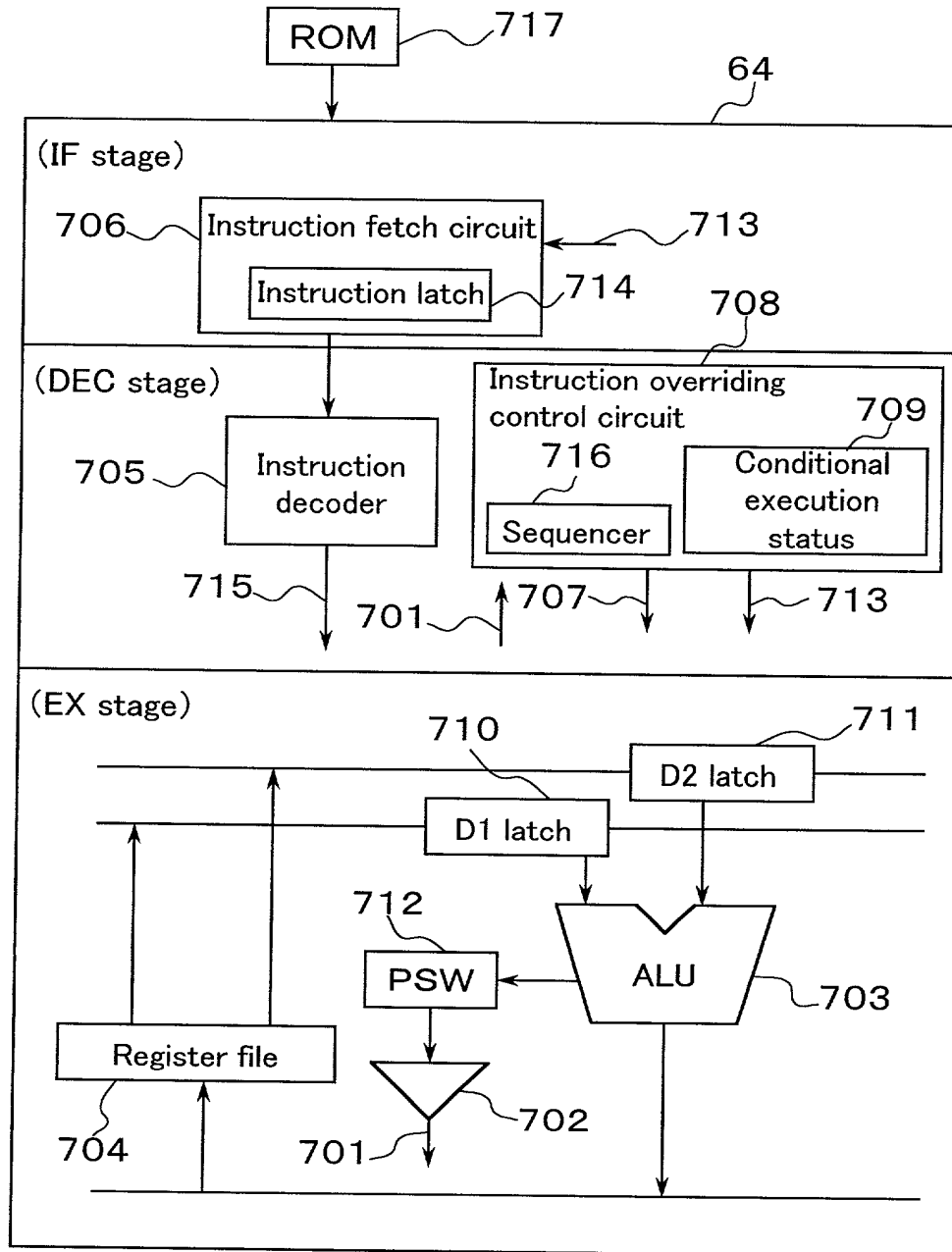


FIG. 2

Conditional execution status Exclusive condition	x' 00	x' 01	x' 10	x' 11
1	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"	Instruction overriding signal "0"
0	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"

FIG. 3A

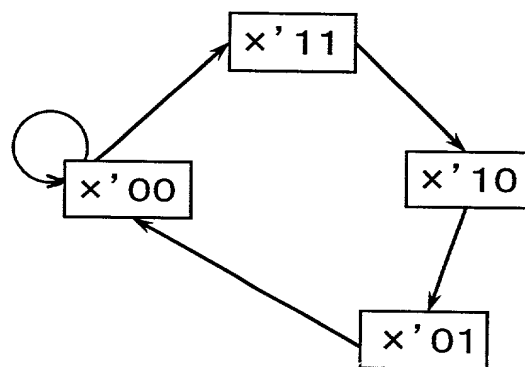


FIG. 3B

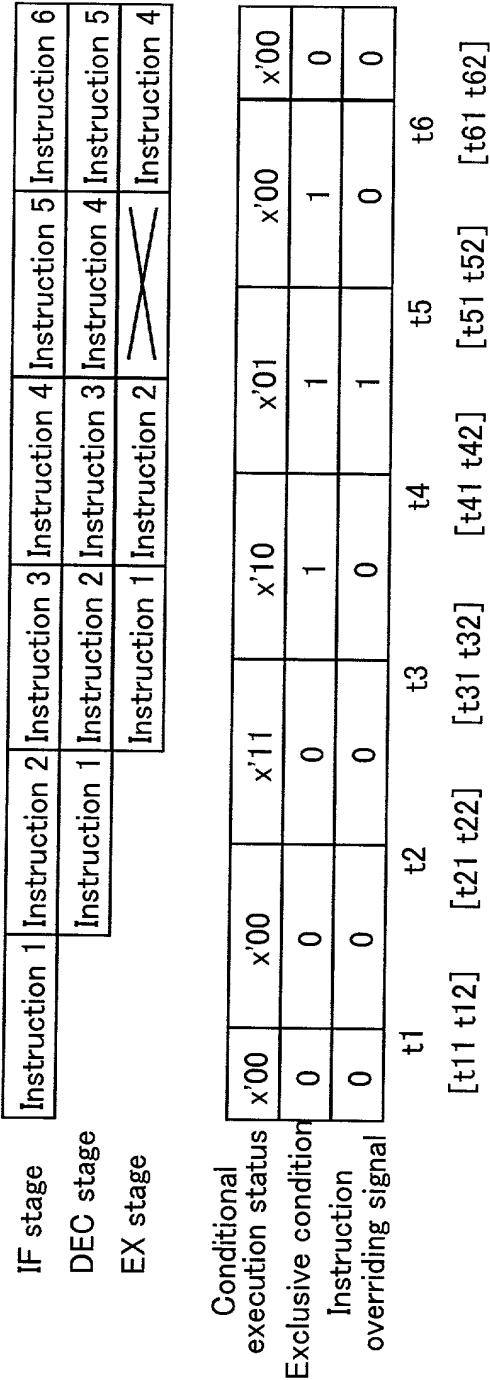


FIG. 4

First line	SUBIFEZF R0,R1
Second line	MOV R2,R4
Third line	MOV R3,R4
Fourth line	ADD R5,R6
Fifth line	NOP
Sixth line	NOP

FIG. 5

108290 "50246350"

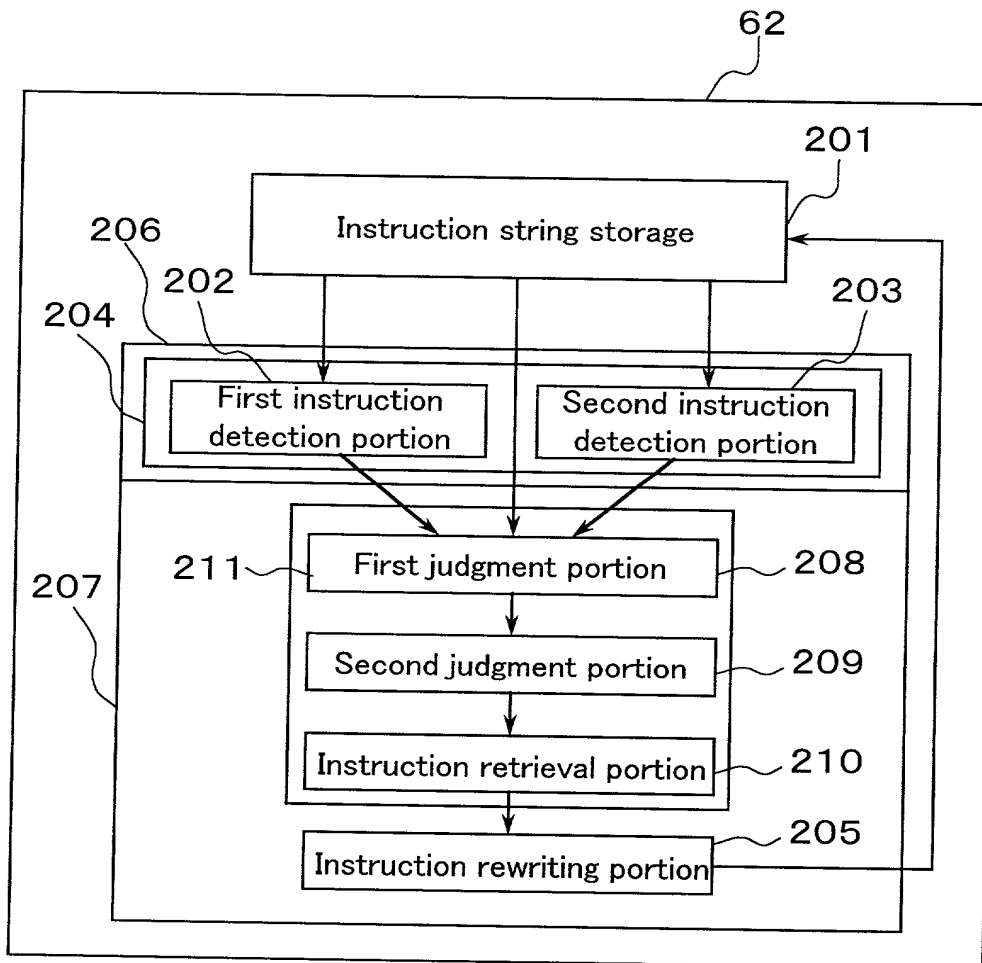


FIG. 6

First line	ADD R5,R1
Second line	SUB R0,R1
Third line	MOVIFZF R2,R4
Fourth line	MOVIFNZF R3,R4
Fifth line	ADD R4,R5
Sixth line	MOV R5,R7
Seventh line	MOVIFZF x'0001,R6
Eighth line	MOV R6,R0

FIG. 7

First line	ADD R5,R1
Second line	SUBIFEZF R0,R1
Third line	MOV R2,R4
Fourth line	MOV R3,R4
Fifth line	ADD R4,R5
Sixth line	MOV R5,R7
Seventh line	MOVIFZF x'0001,R6
Eighth line	MOV R6,R0

FIG. 8

TOP SECRET

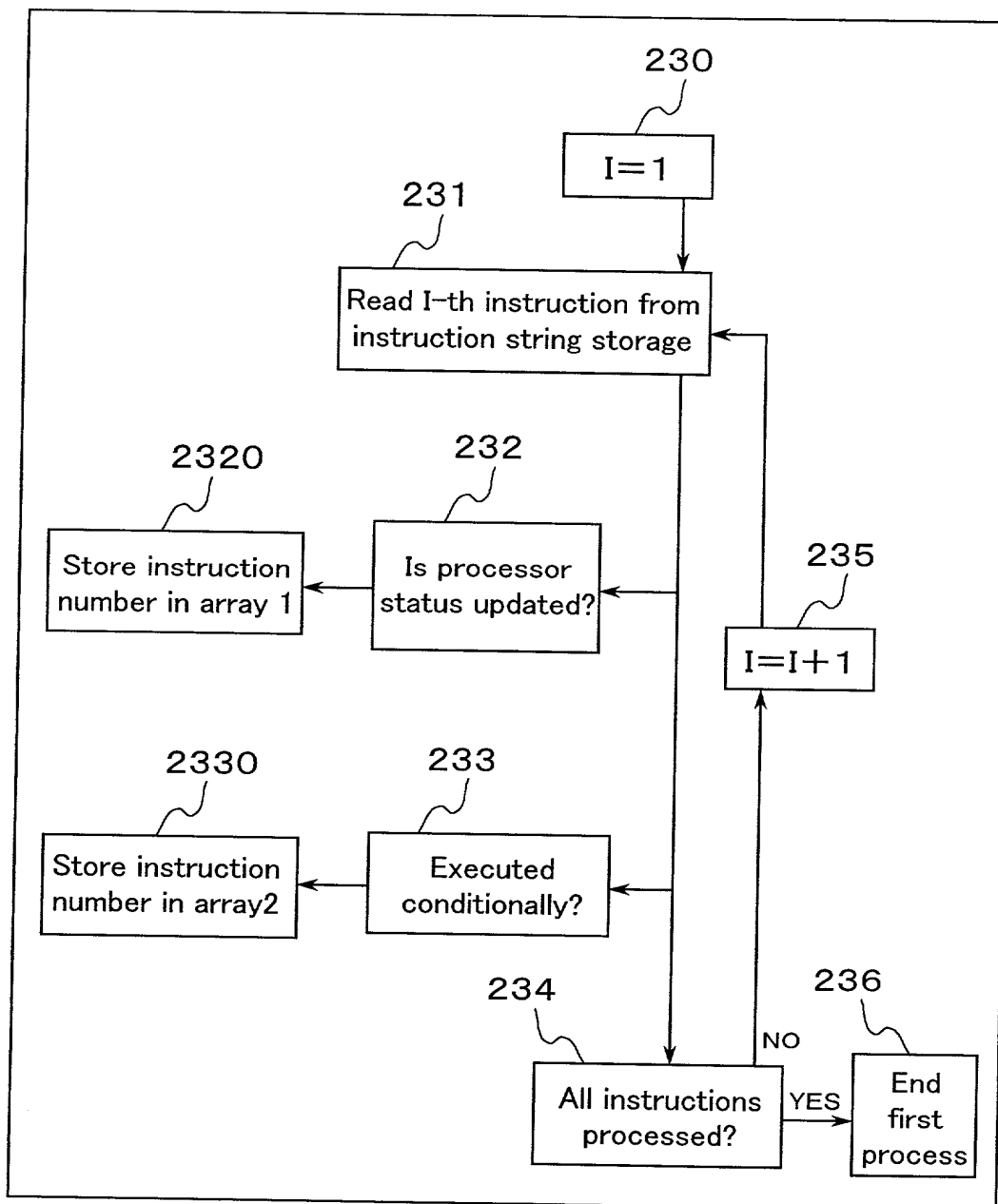


FIG. 9



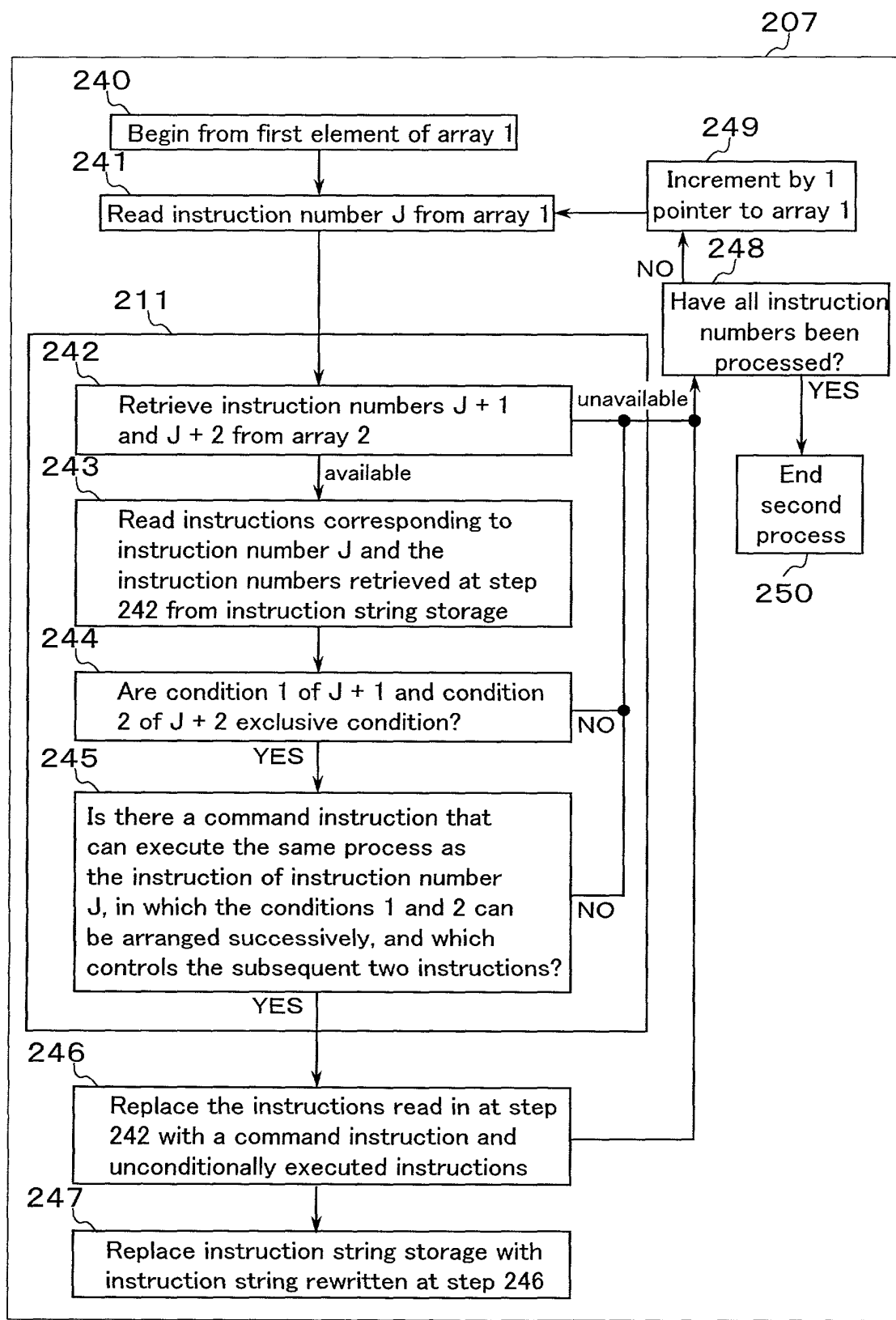


FIG. 10

Conditional execution status Exclusive condition	x' 000	x' 010 or x' 001	x' 100 or x' 011	x' 101
1	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"	Instruction overriding signal "0"
0	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"

FIG. 11A

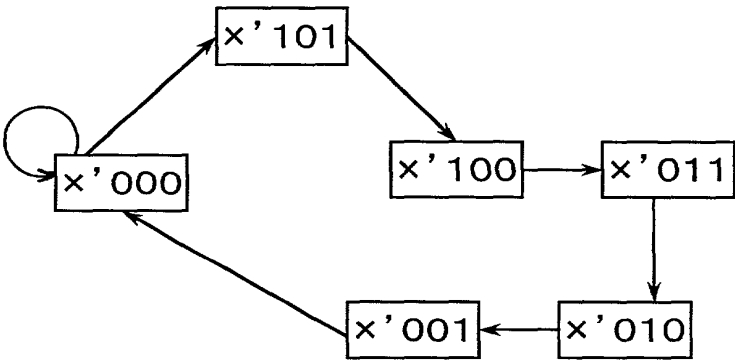


FIG. 11B

First line	SUBIFEXZF R0,R1
Second line	MOV R2,R6
Third line	MOV R3,R7
Fourth line	MOV R4,R6
Fifth line	MOV R5,R7
Sixth line	MOV x'0001,R6
Seventh line	ADD R0,R6
Eighth line	NOP

FIG. 12

0904205 062301  
T08290" 50246860

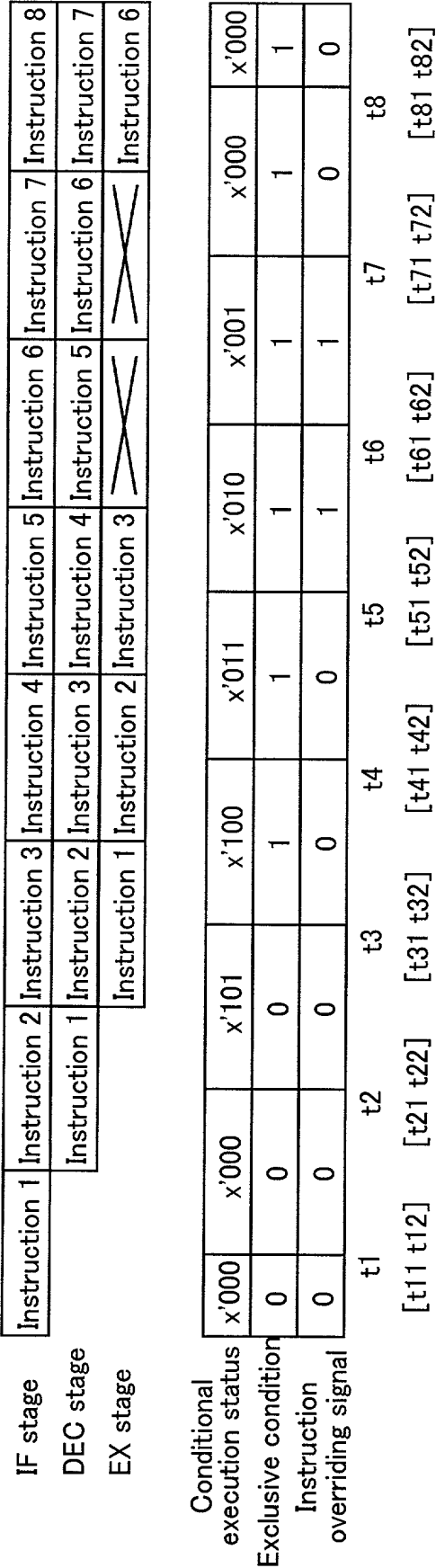


FIG. 13

First line	SUB R0,R1
Second line	MOVIFZF R2,R6
Third line	MOVIFZF R3,R7
Fourth line	MOVIFNZF R4,R6
Fifth line	MOVIFNZF R5,R7
Sixth line	MOV x'0001,R6
Seventh line	ADD R0,R6
Eighth line	NOP

FIG. 14

First line	SUB R0,R1
Second line	MOVIFZF R2,R6
Third line	MOVIFNZF R4,R6
Fourth line	MOVIFNZF R5,R7
Fifth line	MOVIFZF R3,R7
Sixth line	MOV x'0001,R6
Seventh line	ADD R0,R6
Eighth line	NOP

FIG. 15

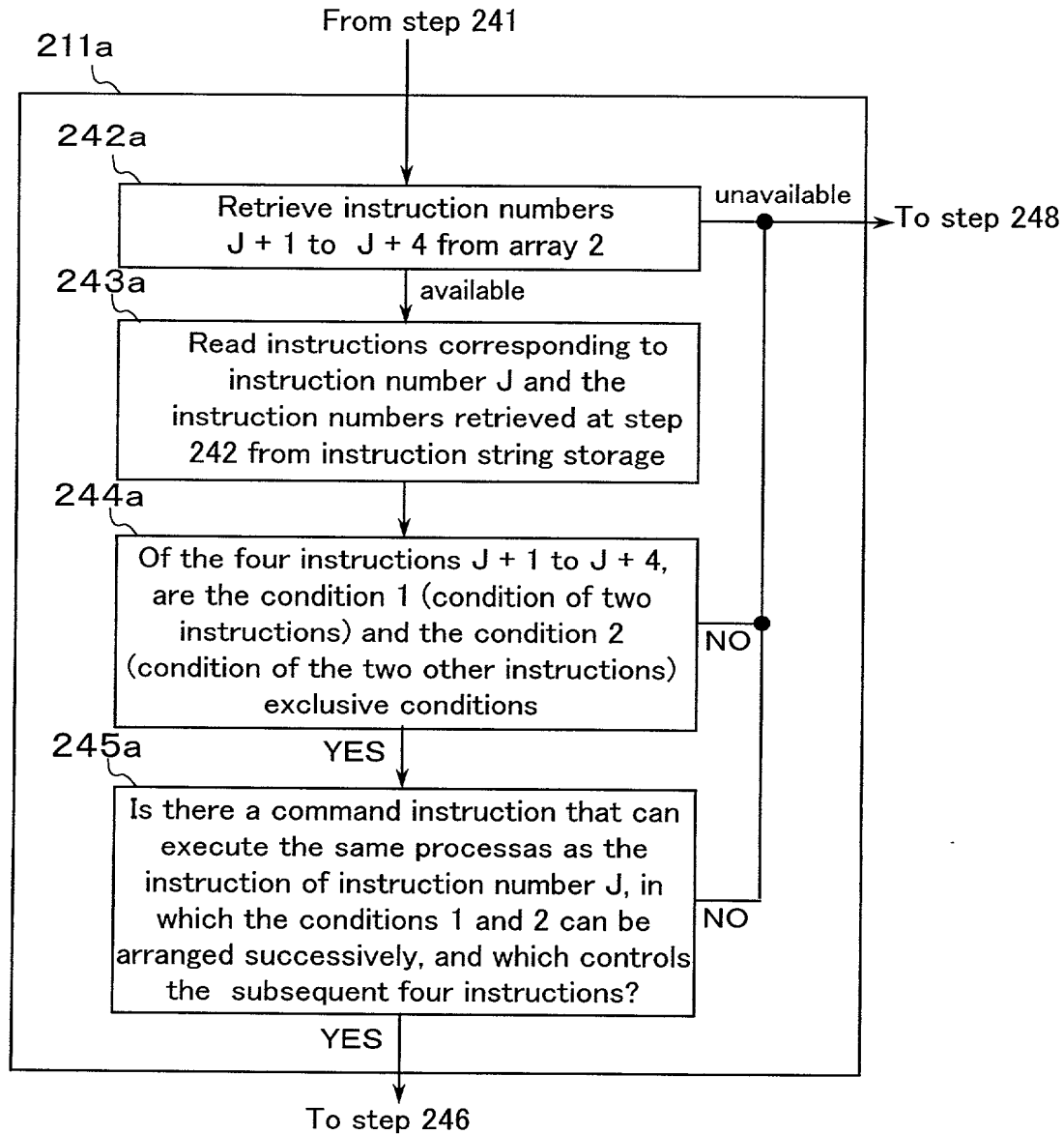


FIG. 16

Exclusive condition \ Conditional execution status	Conditional execution status		
	x' 00	x' 01	x' 10
1	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"
0	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "0"

FIG. 17A

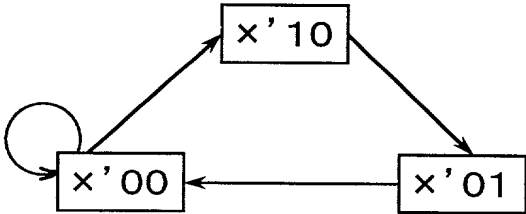


FIG. 17B

10873.753US01

First line	SUBIFXZF R0,R1
Second line	MOV R2,R3
Third line	ADD R3,R6
Fourth line	MOV R4,R7

FIG. 18

10873.753US01



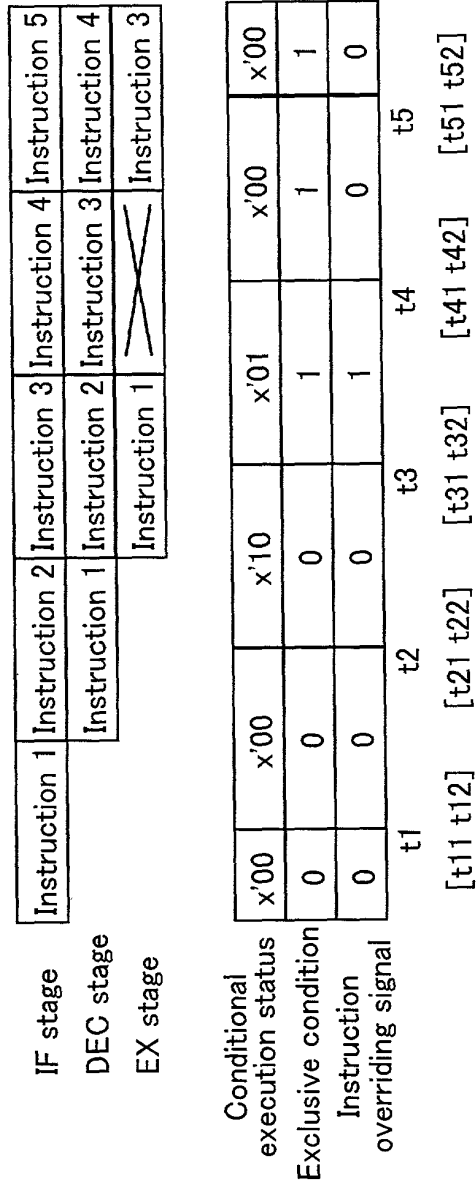


FIG. 19

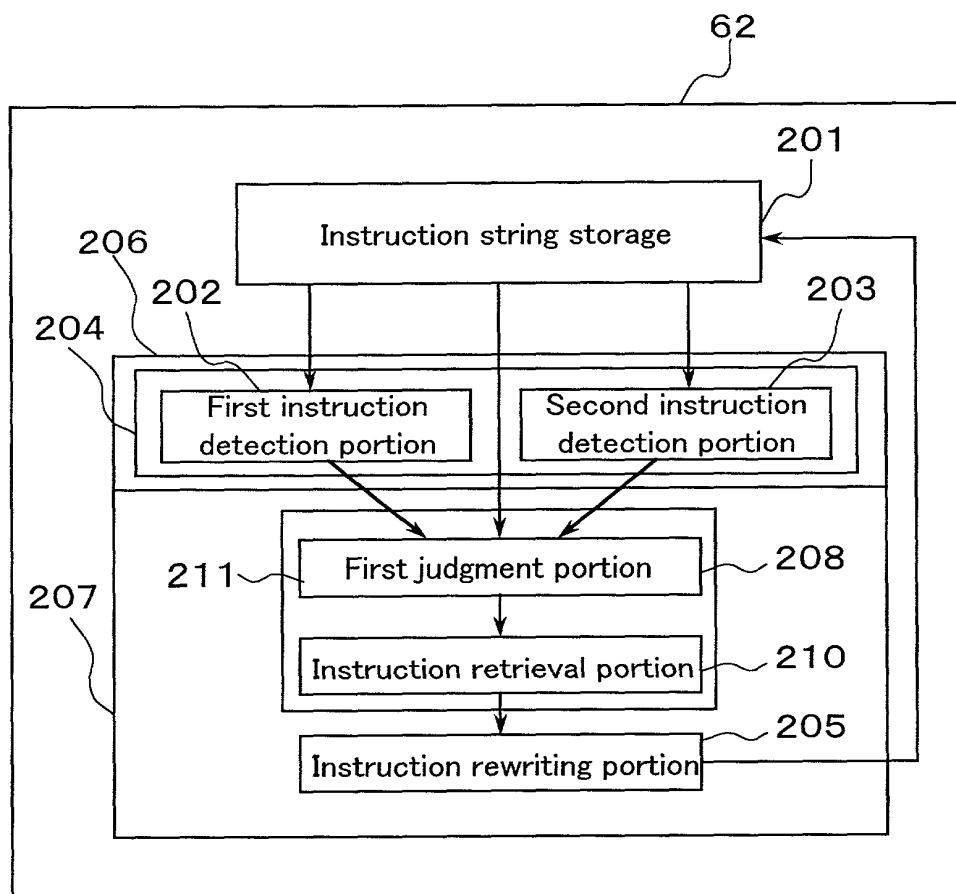


FIG. 20

First line	SUB R0,R1
Second line	MOVIFNZF R2,R3
Third line	ADD R3,R6
Fourth line	MOV R4,R7

FIG. 21

0934203 062201  
102250 50246860

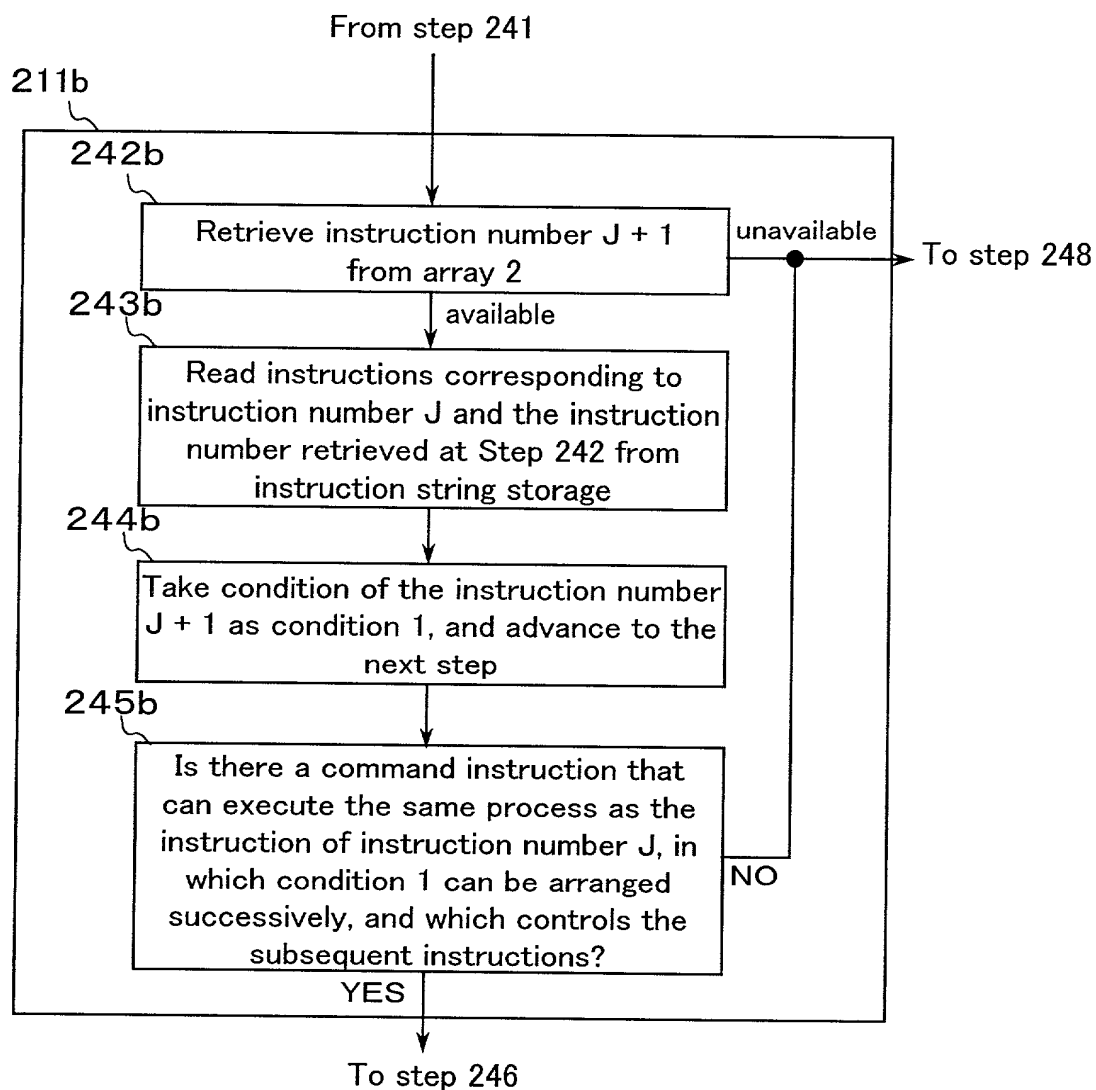


FIG. 22

Conditional execution status Exclusive condition	x' 00	x' 01	x' 10	x' 11
1	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "1"	Instruction overriding signal "0"
0	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "0"

FIG. 23A

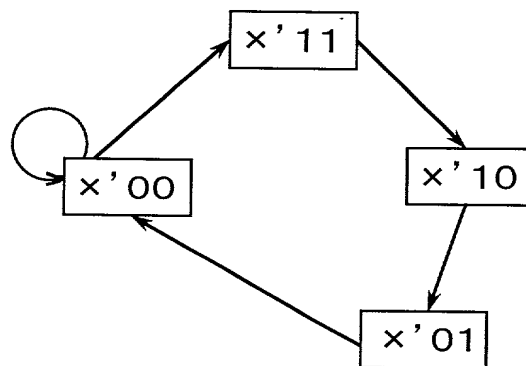


FIG. 23B

First line	SUBIFNXZF R0,R1
Second line	MOV R2,R3
Third line	MOV R5,R4
Fourth line	ADD R3,R6
Fifth LINE	MOV R4,R7

FIG. 24

09394205-062801

T08290" 50246860

IF stage	Instruction 1	Instruction 2	Instruction 3	Instruction 4	Instruction 5	Instruction 6
DEC stage	Instruction 1		Instruction 2	Instruction 3	Instruction 4	Instruction 5
EX stage		Instruction 1				Instruction 4

Conditional execution status	x'00	x'00	x'11	x'10	x'01	x'00	x'00
Exclusive condition	0	0	0	1	1	1	1
Instruction overriding signal	0	0	0	1	1	0	0
	t1	t2	t3	t4	t5	t6	
	[t11 t12]	[t21 t22]	[t31 t32]	[t41 t42]	[t51 t52]	[t61 t62]	

FIG. 25

First line	SUB R0,R1
Second line	MOVIFNZF R2,R3
Third line	MOVIFNZF R5,R4
Fourth line	ADD R3,R6
Fifth line	MOV R4,R7

FIG. 26

0564205 062304  
103290 50246350



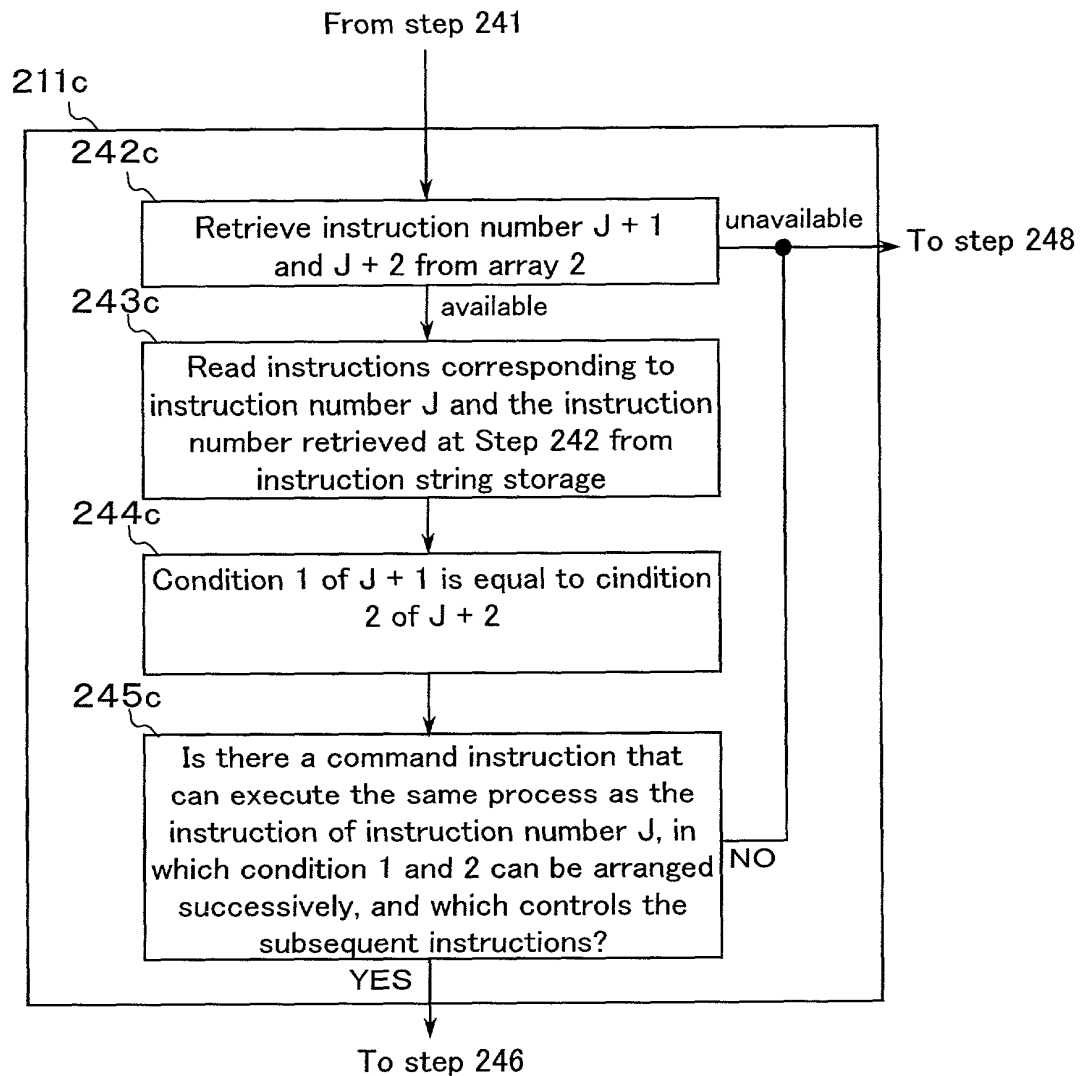


FIG. 27

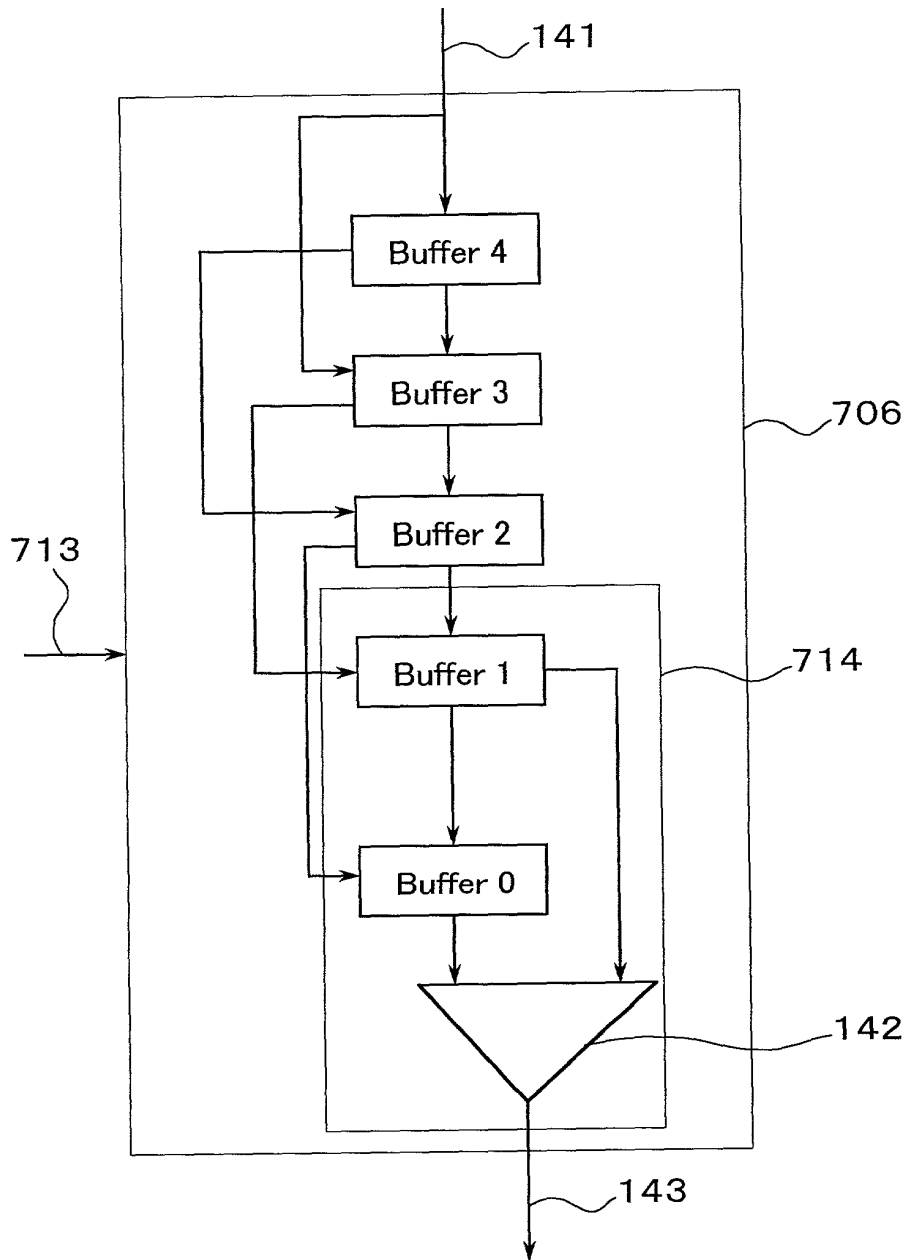


FIG. 28

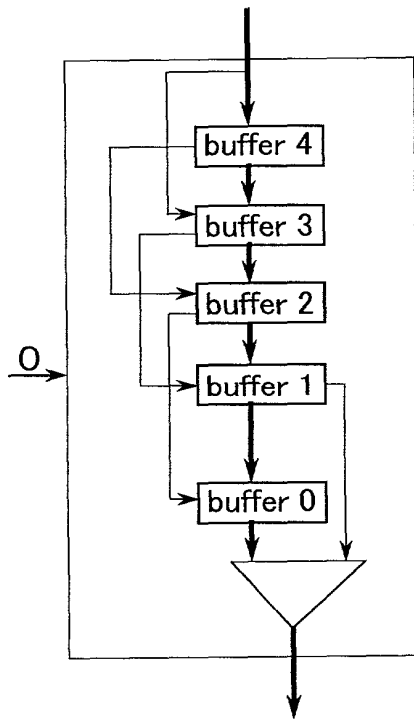


FIG. 29A

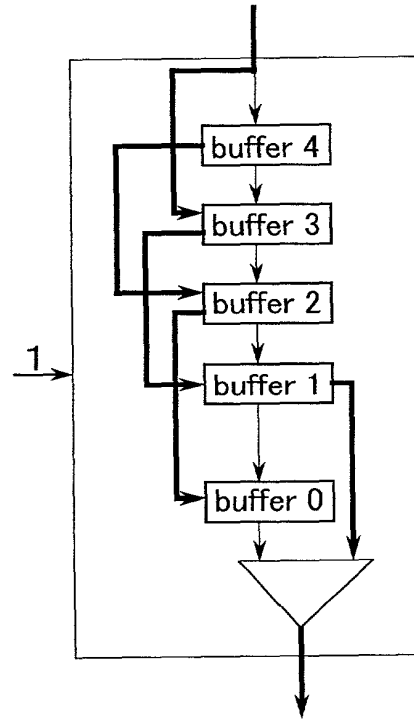


FIG. 29B

T08290" 90246860

Conditional execution status \ Exclusive condition	x' 00	x' 01	x' 10	x' 11
1	Instruction overriding signal "0"	×	Instruction overriding signal "0"	Instruction overriding signal "0"
0	Instruction overriding signal "0"	Instruction overriding signal "0"	Instruction overriding signal "1"	Instruction overriding signal "0"

FIG. 30A

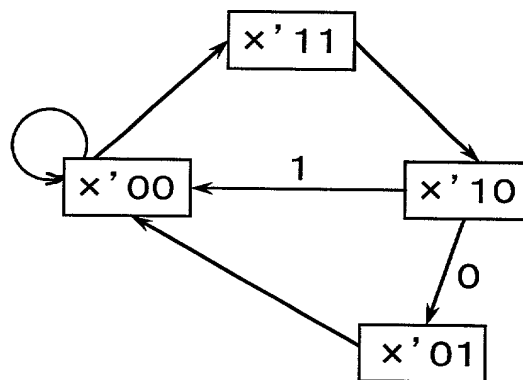


FIG. 30B

Conditional execution status \ Exclusive condition	x' 00	x' 01	x' 10	x' 11
1	0	0	1	0
0	0	0	0	0

FIG. 30C

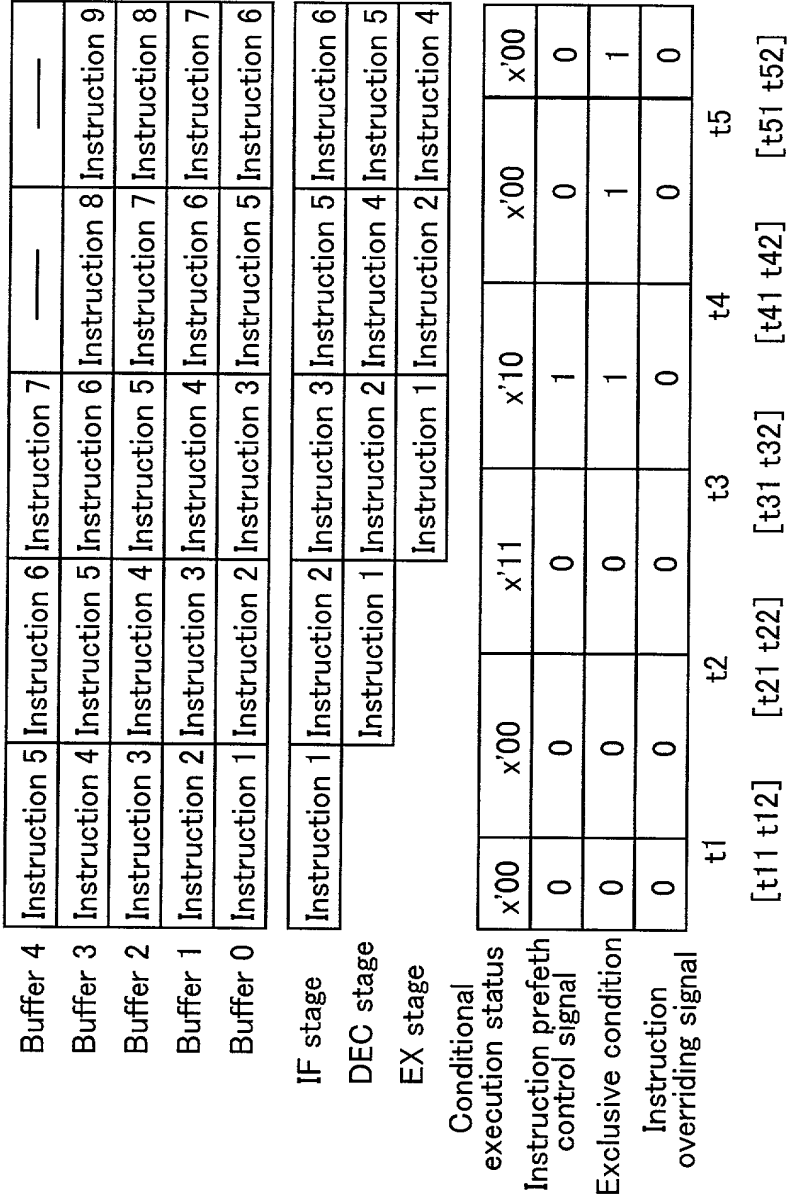


FIG. 31

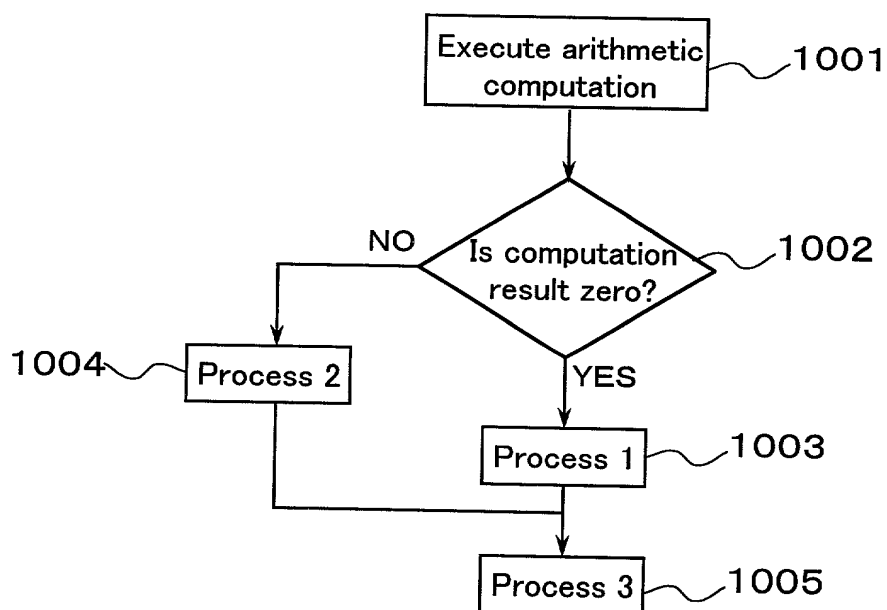


FIG. 32  
(PRIOR ART)

First line	SUB R0,R1
Second line	BNE label 1
Third line	Instruction 1
Fourth line	JMP label 2
Fifth line	label 1: Instruction 2
Sixth line	label 2: Instruction 3

FIG. 33  
(PRIOR ART)

10873.753US01

First line	SUB R0,R1
Second line	MOVIFZF R2,R4
Third line	MOVIFNZF R3,R4
Fourth line	ADD R5,R6

FIG. 34  
(PRIOR ART)

10873.753US01



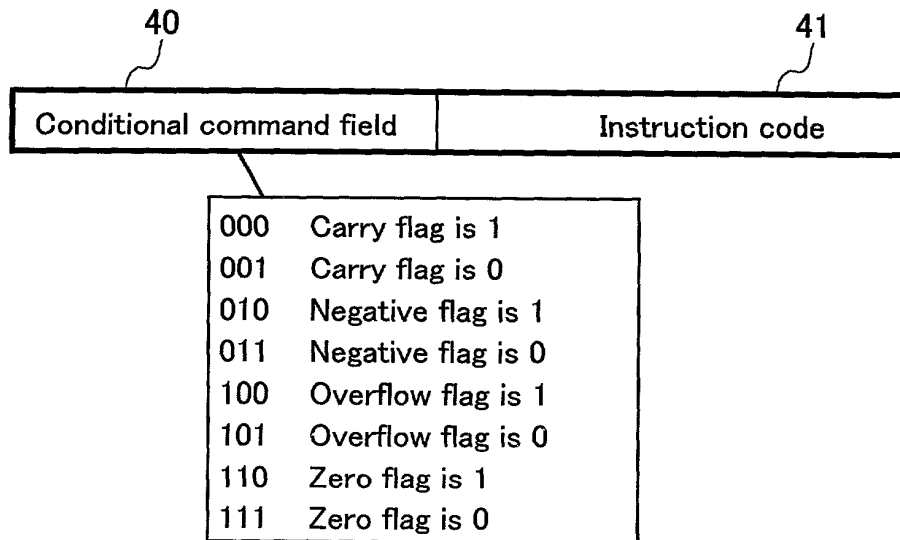


FIG. 35  
(PRIOR ART)